

REMARKS

In response to the above-identified Office Action, Applicant amends the application and seeks reconsideration thereof. In this response, 2 claims have been amended, no claim has been added and 1 claim has been cancelled. Accordingly, Claims 1-3, 5-9 and 25-27 are pending.

The instant application claims a bacterial culture medium, for use under anaerobic conditions, comprising at least one metal complex which allows the oxidative polymerization of an indoxyl chemical derivative and a substrate selected from 5-bromo-4-chloro-3-indolyl-b-D-galactoside, 5-bromo-4-chloro-3-indolyl-phosphate, 5-bromo-4-chloro-indolyl-N-acetyl-b-D-glucosaminide, 5-bromo-6-chloro-3-indolyl-b-D-galactopyranoside, 5-bromo-6-chloro-3-indolyl- α -D-galactopyranoside, and 5-bromo-6-chloro-3-indolyl phosphate to result in an insoluble colored compound.

Examiner Interview

Applicant respectfully submits the following summary of the Examiner interview after Final Action held between Examiner Prats and Applicant's attorney Stacie J. Sundquist on December 6, 2004. During the interview, the Examiner discussed with Applicant's attorney the rejections presented in the Final Action dated July 13, 2004 and Applicant's proposed amendments in response to the Final Action. Applicant appreciatively acknowledges the Examiner's interview and consideration after the Final Action.

No New Matter

Applicant respectfully submits the amendments to claim 1 and the specification do not add new matter. Amended claim 1 merely incorporates the full chemical names of the substrates previously presented in claim 4 into claim 1. Similarly, the amended specification merely replaces the recitation of the various chemical abbreviations with the full chemical names as previously presented in the application. As will be discussed more fully below and as is evidenced by the proof submitted herewith, the specific chemical names recited in the amended specification and claims are the full chemical names of the chemical abbreviations previously presented in the application. Applicant submits these amendments in order to expedite the prosecution of this application.

Claims Rejected Under 35 U.S.C. §112

The Examiner has rejected claims 1-9 and 25-27 under 35 U.S.C. §112, first paragraph, as containing subject matter not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed had possession of the claimed invention.

Specifically, the Examiner states there is no basis or support found in the specification for the recitation of "indoxyl chemical derivative" and for the full chemical names in claim 4. The Examiner further states claims 1 and 25 are vague, indefinite and confusing in the recitation of "indoxly chemical derivative" since the derivatives are not defined in the specification.

With respect to the Examiner's determination that the specification does not support Applicant's recitation of "indoxyl chemical derivative", Applicant respectfully directs the Examiner's attention to page 1, lines 5-10, page 1, lines 10-20, page 4, lines 20-35, page 7, of the specification wherein indoxyl derivatives are referenced numerous times and specific examples of substrates containing Applicant's claimed "indoxyl chemical derivatives" are listed.

Applicant further submits that the terms "indoxyl" and "indolyl" are synonymous with one another and are used interchangeably in reference to the same chemical compounds. Applicant respectfully submits as proof of this fact, a true and correct copies of search reports from the STN International online database showing the terms "indolyl" and "indoxyl" used interchangeably to indicate the specific chemical compounds recited in claim 1 and the specification. Accordingly, Applicant's previous recitation of "indoxyl chemical derivatives" and abbreviated examples in the specification support Applicant's amended recitation of the compounds 5-bromo-4-chloro-3-indolyl-b-D-galactoside, 5-bromo-4-chloro-3-indolyl-phosphate, 5-bromo-4-chloro-indolyl-N-acetyl-b-D-glucosaminide, 5-bromo-6-chloro-3-indolyl-b-D-galactopyranoside, 5-bromo-6-chloro-3-indolyl- α -D-galactopyranoside, and 5-bromo-6-chloro-3-indolyl phosphate in the specification and claims. One of ordinary skill in the art would recognize the terms mean the same thing therefore Applicant's recitation of

chemical names using “indolyl” does not render the claims vague, indefinite or confusing.

In regard to claim 4, as previously discussed, Applicant has included with this response, evidence showing that the full chemical names recited in claim 4 are the chemical names for the abbreviations previously presented. Applicant further clarifies for the Examiner that the abbreviation X-ACGLMN was improperly recited in the application and should have been recited as X-GlcNAc. Accordingly, as can be seen from the evidence submitted by the application, the full chemical name for the abbreviation as correctly recited, X-GlcNAc, is 5-bromo-4-chloro-indolyl-N-acetyl-b-D-glucosaminide and is recited in the amended specification and claims. Similarly, the application incorrectly recited MAL-Phos instead of MAG-Phos, which corresponds to MAGENTA-Phos. The correct full chemical name as reflected in the amended specification and claims is therefore 5-bromo-6-chloro-3-indolyl-phosphate. Applicant further submits, for the Examiner’s convenience, that MAG- α -Gal corresponds to MAGENTA-Gal and the full chemical name for MAGENTA-Gal is 5-bromo-6 chloro-3-indolyl-b-D-galactopyranoside. Thus, Applicant respectfully requests withdrawal of the rejection of claims 1-9 and 25-27 for at least these reasons.

In regard to claim 6, the Examiner determines the recitation of “aerobic anaerobic bacteria” is vague and indefinite because it is unclear what is intended. As previously submitted, this is a term of art and one of ordinary skill in the art would understand it

to refer to bacteria that can grow both in aerobic conditions and in anaerobic conditions. Applicant respectfully submits the terms "facultative" and "aerobic anaerobic bacteria" are interchangeable and both are equally recognized by one of ordinary skill in the art. As proof, Applicant respectfully submits along with this response the results of a search on the internet search engine www.google.com, showing use of both terms to refer to bacteria capable of growing in both aerobic and anaerobic conditions. Thus Applicant respectfully requests withdrawal of the rejection of Claim 6.

In regard to Claim 25, the Examiner states Claim 25 is indefinite in that the ingredients of the composition cannot be readily determined and further characterizes the claims as a product by process claim. Applicant respectfully submits claim 25 is not a product by process claim. Applicant further submits claim 25 clearly recites the ingredients of the composition in that subpart (a) and (b) of claim 25 recite that the medium contains a bacteria cultured under anaerobic conditions, at least one substrate containing an indoxyl chemical derivative and further at least one oxidizing metal complex wherein at least one oxidizing metal complex is ammoniacal iron citrate. Nevertheless, Applicant has amended claim 25 to clarify the recitation of the ingredients of the composition. Accordingly, the composition of claim 25 is not vague or indefinite. Thus, Applicant respectfully requests withdrawal of the rejection of claim 25.

In regard to Claim 26, the Examiner states the claim is vague and indefinite and contains a cultured step in a composition claim. As submitted in Applicant's response dated June 8, 2004, Claim 26 was amended to be in composition claim form.

Accordingly, Claim 26 is not vague and indefinite. Further, the cultured bacteria recited in Claim 26 are discussed throughout the specification. Applicant respectfully directs the Examiner's attention to page 4, lines 24-38 and page 5, lines 1-5 of the specification. Accordingly, claim 26 is fully supported by the specification and therefore not vague or indefinite. Thus, Applicant respectfully requests withdrawal of the rejection of Claim 26.

Claims Rejected Under 35 U.S.C. §102(b)

The Examiner rejects claims 1-7 and 25-26 under 35 U.S.C. §102(b) as being anticipated by U.S. Patent No. 3,725,203 issued to Sellers ("Sellers"). Applicant respectfully traverses the rejection.

It is axiomatic that to anticipate a claim, every element of the claim must be disclosed within a single reference. *Verdegaal Bros. v. Union Oil Co. of California*, 814 F.2d 628, 631, 2 USPQ2d 1051, 1053 (Fed. Cir. 1987). Furthermore, the reference must disclose the identical invention in as complete detail as is found in the claim. *Richardson v. Suzuki Motor Co.*, 868 F.2d 1226, 1236, 9 USPQ2d 1913, 1920 (Fed. Cir. 1989). Among other elements, claim 1 defines a bacterial culture medium for use under anaerobic conditions comprising at least one metal complex which allows the oxidative

polymerization of an indoxyl chemical derivative and a substrate selected from 5-bromo-4-chloro-3-indolyl-b-D-galactoside, 5-bromo-4-chloro-3-indolyl-phosphate, 5-bromo-4-chloro-indolyl-N-acetyl-b-D-glucosaminide, 5-bromo-6-chloro-3-indolyl-b-D-galactopyranoside, 5-bromo-6-chloro-3-indolyl- α -D-galactopyranoside, and 5-bromo-6-chloro-3-indolyl phosphate to result in an insoluble colored compound. Applicant respectfully submits Sellers fails to teach each of the elements of claim 1.

Sellers teaches a culture media which affects the growth and enables the identification of bacteria. The culture media includes L-tryptophane, ferric ammonium citrate and brom cresol purple maintained in an acid medium. Sellers further teaches the use of the L-tryptophane component to produce the colored complex. Applicant respectfully submits that L-tryptophane includes an indol ring, not an indoxyl. An indoxyl is distinctly different from an indol in that it includes an "OH" group along the ring. It is well known in the art that L-tryptophane does not include an "OH" group therefore it does not teach Applicant's previously recited "indoxyl chemical derivative" much less 5-bromo-4-chloro-3-indolyl-b-D-galactoside, 5-bromo-4-chloro-3-indolyl-phosphate, 5-bromo-4-chloro-indolyl-N-acetyl-b-D-glucosaminide, 5-bromo-6-chloro-3-indolyl-b-D-galactopyranoside, 5-bromo-6-chloro-3-indolyl- α -D-galactopyranoside, and 5-bromo-6-chloro-3-indolyl phosphate as recited in the amended specification and claims. Accordingly, each element of Claim 1 is not described in Sellers therefore anticipation may not be found. Applicant respectfully traverses the rejection and requests withdrawal of the rejection of Claim 1.

In regard to dependent Claim 5, Applicant respectfully submits this claim depends from independent Claim 1 and incorporates the limitations thereof. Claim 5 further recites the substrate has a concentration of between 10 and 500 mg/l. Applicant respectfully submits the Examiner fails to point to the portion of Sellers wherein this limitation is taught or suggested. As the Examiner is no doubt aware, in finally rejecting an application the Examiner must set forth the basis for the rejection with sufficient clarity to allow the Applicant to readily judge the advisability of appeal. MPEP § 706.07. Accordingly, Applicant respectfully requests the Examiner withdraw the final rejection of Claim 5 and particularly point out where within the reference the limitation of a substrate concentration of between 10 and 500 mg/l is taught or suggested so that the Applicant may have an adequate opportunity to respond.

In regard to dependent Claims 2, 3, 6, 7, and 25-27, these claims depend from independent Claim 1 and incorporate limitations thereof. Thus, for the reasons mentioned in regard to independent Claim 1, these claims are not anticipated by Seller. Accordingly, reconsideration and withdrawal of the rejections of Claims 2, 3, 6, 7, and 25-27 are also requested.

Claims Rejected under 35 U.S.C. §103(a)

The Examiner rejects Claims 1-9 and 25-27 under 35 U.S.C. §103(a) as being

unpatentable over Sellers in view of Chevalier et. al. ("Chevalier") and the Difco Manual, 11th Edition, 1998, pages 125-127 and 246-247 ("Difco"). Applicant respectfully traverses the rejection.

To render a claim obvious, the relied upon references must disclose every limitation of the claim such that the invention as a whole would have been obvious at the time of the invention was made to one skilled in the art. MPEP §2143. Furthermore, there must be a showing of suggestion or motivation to modify or combine the teachings of those references. *In re Rouffet*, 149 F.3d 1350, 1357, 47 USPQ2d 1453, 1457-58 (Fed. Cir. 1998). Hindsight must be avoided and instead a conclusion of obviousness must be based on the facts found in the prior art. *In re McLaughlin*, 443 F.2d 1392, 1395, 170 USPQ 209, 212 (CCPA 1971).

In making the rejection, the Examiner relies on the previous characterization of Sellers and concedes that Sellers does not disclose Applicant's claimed cysteinated Columbia medium and further a magnesium sulfate at a concentration of between 5 mM and 100 mM and/or at least one antibiotic. The Examiner relies on Chevalier to cure the defects of Sellers in stating Chevalier discloses a medium for the detection of bacteria which contains magnesium sulfate in combination with chromogenic substrates and further that antibiotics in selective media is a well known technique in the art. The Examiner relies on Difco to show that the use of cysteinated Columbia medium is old and well known in the art. The Examiner states it would have been obvious to modify

the medium of Sellers by replacing sodium thiosulfate with magnesium sulfate or by using cysteinated Columbia medium in conjunction with chromogenic substrates to provide a medium capable of selectively detecting deleterious bacteria.

Applicant respectfully submits, as previously discussed, Sellers fails to teach or suggest at least the element of a substrate selected from 5-bromo-4-chloro-3-indolyl-b-D-galactoside, 5-bromo-4-chloro-3-indolyl-phosphate, 5-bromo-4-chloro-indolyl-N-acetyl-b-D-glucosaminide, 5-bromo-6-chloro-3-indolyl-b-D-galactopyranoside, 5-bromo-6-chloro-3-indolyl- α -D-galactopyranoside, and 5-bromo-6-chloro-3-indolyl phosphate as recited in Claim 1. Accordingly, the above-referenced compounds are also not rendered obvious in view of Sellers and the Examiner has not stated they are. Furthermore, the Examiner has not relied upon Chevalier or Difco to cure the defects of Sellers with respect to the above-referenced chemicals recited in Claim 1.

Applicant has reviewed Chevalier and Difco and has been unable to discern anywhere within the references where at least the elements of a bacterial culture medium, for use under anaerobic conditions, comprising at least one metal complex which allows the oxidative polymerization of an indoxyl chemical derivative and a substrate selected from 5-bromo-4-chloro-3-indolyl-b-D-galactoside, 5-bromo-4-chloro-3-indolyl-phosphate, 5-bromo-4-chloro-indolyl-N-acetyl-b-D-glucosaminide, 5-bromo-6-chloro-3-indolyl-b-D-galactopyranoside, 5-bromo-6-chloro-3-indolyl- α -D-galactopyranoside, and 5-bromo-6-chloro-3-indolyl phosphate to result in an insoluble

colored compound are taught or suggested. Accordingly, the referenced combination of Sellers, Chevalier and Difco does not teach or suggest all the limitations of Claim 1 therefore a prima facie case of obviousness has not been established. Applicant respectfully requests withdrawal of the obviousness rejection of Claim 1.

Moreover, the Examiner has inappropriately combined the references in determining Applicant's claimed magnesium sulfate and/or an antibiotic in the medium and the use of cysteinated Columbia medium as recited in Claims 8 and 9 are prima facie obvious. Applicant respectfully submits Difco teaches that "Columbia Broth, in the presence of CO₂ and supplemented with SPS, is an excellent blood culture medium." (See Difco, page 125). Although, Difco further teaches that the Bacto Columbia CNA Agar may also be used as a medium for gram-positive cocci growth, Difco specifically recites that blood must also be added to the composition. (See Difco, page 127). In contrast, Chevalier teaches the use of a medium for enumeration of intestinal microflora such as bifidobacteria and lactic acid bacteria in milk. (See Chevalier, page 75). The references teach entirely distinct inventive purposes and neither teach or suggest usefulness outside the scope of the claimed invention. Accordingly, one skilled in the art would not be motivated to combine the Difco teachings of a medium for blood culturing with the Chevalier teachings of a medium for detecting intestinal microflora and lactic acid bacteria in milk to achieve Applicant's intended results. Even if the use of Columbia medium, as taught in Difco, is old and well known in the art, based on the teachings of Difco, it is well known as a blood

culture medium, not a medium comprising at least one metal complex which allows for oxidative polymerization of an indoxyl chemical derivative and an indoxyl chemical derivative substrate as recited in Claim 1 to result in an insoluble colored compound. Accordingly, even if it were possible to combine the references, it would only be upon viewing Applicant's disclosure that one skilled in the art would be motivated to do so to achieve Applicant's claimed invention. As the Examiner is no doubt aware, such hindsight reconstruction does not provide an appropriate basis for finding obviousness. Thus the Examiner has not shown Claims 8 and 9 are prima facie obvious over Sellers, Difco or Chevalier, alone or in combination. As such, Applicant respectfully requests withdrawal of the rejection of Claims 8 and 9.

Claims 2, 3, 5-7 and 25-27 depend from Claim 1 and incorporate each of the elements thereof. Therefore, Applicant respectfully submits each of the elements of claims 2, 3, 5-7 and 25-27 are not taught or suggested by the referenced combination therefore a prima facie case of obviousness has not been established. Applicant respectfully requests withdrawal of the obviousness rejection of Claims 2, 3, 5-7 and 25-27.

CONCLUSION

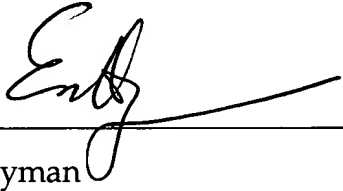
In view of the foregoing, it is believed that all claims now pending are now in condition for allowance and such action is earnestly solicited at the earliest possible date. Applicant respectfully submits herewith a check in the amount of \$450.00 pursuant to 37 C.F.R. §1.17(a)(2) for extension fees for filing a response during the

second month. If there are any additional fees due in connection with the filing of this response, please charge those fees to our Deposit Account No. 02-2666. Questions regarding this matter should be directed to the undersigned at (310) 207-3800.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR, & ZAFMAN LLP

Dated: 12/13/07

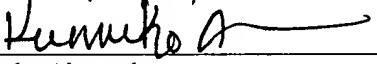
By: 

Eric S. Hyman
Reg. No. 30,139

12400 Wilshire Boulevard
Seventh Floor
Los Angeles, California 90025
(310) 207-3800

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to: Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on 12/13/04

 12/13/04
Kumiko Alexander

[Home](#) [Search](#) [Contacts](#) [Order](#) [Catalog](#) [Support](#)
[Alphabetical Index](#) [Numerical Index](#) [molecular biology products](#) [ISO 9001](#) [ISO 14001](#)

Fermentas
 LIFE SCIENCES

[Restriction Endonucleases](#) [Nucleic Acids](#) [Nucleotides & Oligonucleotides](#) [Modifying Enzymes](#) [Media](#) [Transfection Reagents](#) [PCR](#) [Kits](#) [Markers Reagents](#)
C **A** **T** **A** **L** **O** **G**

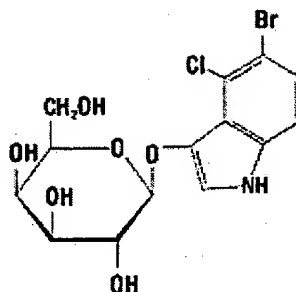
X-Gal

#R0401	0.5g
#R0402	2.0g
#R0402	1.0g

Description

X-Gal (5-bromo-4-chloro-3-indolyl-beta-D-galactopyranoside) is a noninducing chromogenic substrate for beta-galactosidase, which hydrolyzes X-Gal forming an intense blue precipitate. X-Gal is most frequently used in conjunction with IPTG in blue/white colony screening to detect recombinants (white) from non-recombinants (blue) (1).

It is also utilized for selection of beta-galactosidase reporter gene activity in transfection of eucariotic cells and for detection of beta-galactosidase in immunology and histochemistry applications.



Formula: C₁₄H₁₅Br Cl N O₆

Molecular Weight: 408.6

Quality Control

Purity of >98% by HPLC.

Tested in the blue/white colony screening experiment.

Storage

Store at -20°C in the dark.

Reference

1. Sambrook, J., Russell, D.W., Molecular Cloning: A Laboratory Manual, the Third edition, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York, 1.124-1.125, A1.27, 2001.

Certificate of Analysis

MSDS



☐ View Cart ☐ Account ☐ Check-Out

Search for Products:

Soumettre la requête

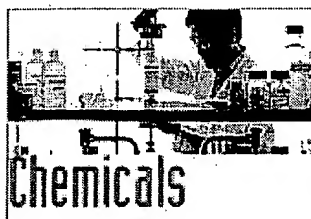
☐ HOME

☐ LABORATORY EQUIPMENT

☐ CHEMICALS

☐ EDUCATIONAL PRODUCTS

Chemicals » Alphabetical Listing of Chemicals » X » X-Phos AMPD Salt



Chemicals

Aa - Az	Na - Nz
Ba - Bz	Oa - Oz
Ca - Cz	Pa - Pz
Da - Dz	Qa - Qz
Ea - Ez	Ra - Rz
Fa - Fz	Sa - Sz
Ga - Gz	Ta - Tz
Ha - Hz	Ua - Uz
Ia - Iz	Va - Vz
Ja - Jz	Wa - Wz
Ka - Kz	Xa - Xz
La - Lz	Ya - Yz
Ma - Mz	Za - Zz

X-Phos AMPD Salt

5-Bromo-4-chloro-3-indolyl Phosphate, Di(2-amino-2-methyl-1,3-propanediol) Salt

$C_{16}H_{28}BrClN_3O_8P$ F.W. 536.74 CAS 107475-11-6

Ratings

Health: 1

Flammability: 0

Reactivity: 0

Enter quantities for each size you wish to add to your cart:

SKU	Size	Your Price	Quantity
SC-X3011-1g	1 g	\$342.30	<input type="text" value="0"/>

☐ ADD TO CART

† Limited Quantity

* Subject to Hazardous Material Fee

Storage Information:

Store at 0°C

Science Information Resources	Safety Information	Shipping & Returns	Customer Support
Periodic Elements Table Unit Conversion Calculator	Chemical Storage Recommendations OSHA Lab Standards	View our shipping rates Return a product	Privacy Policy Contact us

Laboratory Equipment | Chemicals | Educational Products

Company Info • Contact ScienceLab • Terms of Use • Privacy Policy

Brom

Alphabetical List of Products

€ 8-Bromoadenosine 5'-triphosphate 5 mg 22.00
B 3756 sodium salt 25 mg 63.10
 [2-8°C] 8-Br-ATP
 [81035-56-5] $C_{10}H_{15}N_5O_{13}P_3Br$ FW 586.1
 approx. 95%
 P_{2X} Purinoceptor agonist similar in reactivity to ATP.
 8-Bromo form of Adenosine 5'-triphosphate.
 Ref.: 1. Picher, M., et al., *Biochem. Pharmacol.* 51, 1453 (1996)
 2. Maruta, S., et al., *Eur. J. Biochem.* 256, 229 (1998)
 R: 23/24/25-36/37/38 S: 53-22-26-36-45

B 9392 16 β -Bromoandrosterone 5 mg 217.60
 [RT] 5 α -Androstan-16 β -bromo-3 α -ol-17-one
 [115115-49-6] $C_{19}H_{29}BrO_2$ FW 369.3

◆ 4-Bromoaniline
 p-Bromoaniline
 [106-40-1] C_6H_6BrN FW 172.0
 R: 21/22-36/37/38 S: 53-26-45-37/39

B 2395 approx. 98%, Crystalline 10 g 29.30
 [RT] Color: white to light yellow 50 g 98.30
 100 g 171.90

10,090-0 Powder, Practical Grade 5 g 7.93
 [RT] May produce turbid solutions. 100 g 41.31
 Color: tan 500 g 159.16

NEW **B-135** R(+)-6-Bromo-APB hydrobromide 25 mg 273.65
 [2-8°C] R(+)-6-Bromo-7,8-dihydroxy-100 mg 812.10
 3-allyl-1-phenyl-2,3,4,5-tetrahydro-1H-3-benzazepine
 $C_{19}H_{20}BrNO_2 \cdot HBr$ FW 455.2

Solid
 D_1 Dopamine receptor agonist; more potent enantiomer.
 Photosensitive
 Color: off-white
 Solubility: ethanol, soluble
 Ref.: Neumeyer, et al., Stereoisomeric probes for the D_1 dopamine receptor: Synthesis and characterization of R(+)- and S(-) enantiomers of 3-allyl-7,8-dihydroxy-1-phenyl-2,3,4,5-tetrahydro-1H-3-benzazepine and its 6-bromo analogue. *J. Med. Chem.* 35, 1466 (1992)

NEW **B-136** S(-)-6-Bromo-APB hydrobromide 5 mg 72.26
 [2-8°C] $C_{19}H_{20}NO_2Br \cdot HBr$ FW 455.2

Solid
 Weak D_1 dopamine receptor agonist; less potent enantiomer.
 Photosensitive
 Color: off-white
 Solubility: ethanol, soluble
 Ref.: Neumeyer, et al., Stereoisomeric probes for the D_1 dopamine receptor: Synthesis and characterization of R(+)- and S(-) enantiomers of 3-allyl-7,8-dihydroxy-1-phenyl-2,3,4,5-tetrahydro-1H-3-benzazepine and its 6-bromo analogue. *J. Med. Chem.* 35, 1466 (1992)

3-Bromobenzaldehyde 25 g 17.84
B5,720-6 C_7H_5O FW 105.1 100 g 53.66
 [2-8°C] R: 36/37/38 S: 26-36

Bromobenzene 100 mL 8.08
B5,770-2 Density: 1.49 g/mL 250 mL 16.01
 [RT] R: 10-38-51/53 S: 53-61
 500 mL 26.68
 2 L 86.90
 2.5 L 88.42

4-Bromobenzenesulfonyl chloride 25 g 39.94
10,866-9 [98-58-8] $C_6H_4BrClO_2S$ FW 255.5 100 g 129.43
 [RT] R: 34 S: 53-26-45-36/37/39

(o-Bromobenzyl)ethyltrimethylammonium p-toluenesulfonate See: Bretium tosylate Page 309

Bromobimane 25 mg 58.60
B 4380 [71418-44-5] $C_{10}H_{11}N_2O_2Br$
 [2-8°C] FW 271.1

minimum 97%
 Fluorescent probe for thiols
 Ref.: 1. Kosower, N.S., et al., *Proc. Natl. Acad. Sci. USA* 76, 3382 (1979)
 2. Danielsohn, P. and Nolte, A., *Histochemistry* 86, 281 (1987)

3-Bromo-3-buten-1-ol 1 g 29.73
41,088-8 [76334-36-6] C_4H_7BrO FW 151.0 10 g 162.97
 [2-8°C] minimum 98% (GC)
 R: 36/37/38 S: 26-36

2-Bromobutyric acid 100 mL 22.41
14,787-7 $C_4H_7O_2Br$ FW 167.0 500 mL 52.29
 [2-8°C] Density: 1.56 g/mL
 R: 34 S: 53-26-45-36/37/39

4-Bromo-calcimycin See: 4-Bromo-calcium ionophore A23187 Page 314

B 7272 4-Bromo-calcium ionophore A23187 1 mg 106.50
 [2-8°C] 4-Bromo-A23187; 4-Bromo-calcimycin 5 mg 418.30
 cin
 [76455-82-8] $C_{29}H_{36}BrN_3O_6$ FW 602.5

Powder
 Ca^{2+} ionophore that is used to potentiate responses to NMDA receptors, but not quisqualate receptors.
 Analog of calcium ionophore A23187
 Color: yellow
 Solubility: DMSO, soluble
 ethanol, 20 mg/mL
 Ref.: Wang, E., et al., Mechanism and specificity of lanthanide-series cation transport by ionophores A23187, 4-BrA23187, and ionomycin. *Biophys. J.* 75, 1244-1254 (1998)
 R: 20/21/22-36/37/38 S: 26-36/37/39

1-Bromo-6-chlorohexane 5 g 37.35
24,165-2 [6294-17-3] $Br(CH_2)_6Cl$ FW 199.5 25 g 104.88
 [RT] minimum 97% (GC)
 R: 36/37/38 S: 23-24/25

5-Bromo-4-chloro-3-indolyl 2-acetamido-2-deoxy- β -D-galactopyranoside See: 5-Bromo-4-chloro-3-indolyl N-acetyl- β -D-galactosaminide Page 314

5-Bromo-4-chloro-3-indolyl 2-acetamido-2-deoxy- β -D-glucopyranoside See: 5-Bromo-4-chloro-3-indolyl N-acetyl- β -D-glucosaminide Page 314

5-Bromo-4-chloro-3-indolyl 25 mg 18.80
B 4377 acetate 500 mg 169.70
 [2-8°C] [3252-36-6] $C_{10}H_7BrClNO_2$
 FW 288.5

Sealed ampule.
 Decomposes in storage with development of dark blue-green color.
 A histochemical substrate for esterase.
 Ref.: Holt, S.J. and Withers, R.F.J., *Proc. Royal Soc. Lond. B.* 148, 520 (1958)

5-Bromo-4-chloro-3-indolyl N-acetyl- β -D-galactosaminide 5 mg 74.40
B 3166 25 mg 247.00
 [2-8°C] 5-Bromo-4-chloro-3-indolyl 100 mg 684.60
 2-acetamido-2-deoxy- β -D-galactopyranoside; X-GalNAC
 [129572-48-1] $C_{16}H_{18}BrClN_2O_6$ FW 449.7
 approx. 95%

5-Bromo-4-chloro-3-indolyl N-acetyl- β -D-glucosaminide 25 mg 115.20
B 3041 100 mg 319.70
 [2-8°C] X-GlcNAC; 5-Bromo-4-chloro-3-indolyl 2-acetamido-2-deoxy- β -D-glucopyranoside
 [4264-82-8] $C_{16}H_{18}BrClN_2O_6$ FW 449.7
 minimum 98%
 Histochemical substrate for N-acetylglucosaminidase.

AppliChem

Biochemica


Chemica

Synthesis

Service

Aktuelles

Firmenfakten

 Produktkatalog

Distributoren

Formulare

Links

Kontakt

Magenta-Gal

Art.-Nr.: A1143

Menge

Bestell-Nr.

25 mg

A1143,0025

100 mg

A1143,0100

Synonym:

Brom-6-chlor-3-indolyl- β -D-galactopyranosid

Formel:

 $C_{14}H_{15}BrClNO_6$

M:

408,63 g/mol

CAS-Nr.:

93863-88-8

HS-Nr.:

29400090

Lagerung:

-20°C lichtgeschützt

LGK:

10 - 13

Spezifikation:

Gehalt (HPLC):

min. 98 %

 α 20°C/D; 1 %, EtOH:

-46° +- 2°

[Zurück zur Liste](#) | [Neue Suche](#) | [Druckansicht](#)

+ Mag- α -Gal (idem in α -D)

file registry
COST IN EUROS

SINCE FILE ENTRY	TOTAL SESSION
0,31	0,31

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 11:41:57 ON 17 MAY 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 16 MAY 2004 HIGHEST RN 682330-24-1
DICTIONARY FILE UPDATES: 16 MAY 2004 HIGHEST RN 682330-24-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s mag-phos

167 MAG

482 PHOS

L1 0 MAG-PHOS

(MAG(W) PHOS)

=> s magenta phosp?

129 MAGENTA

1268393 PHOSP?

L2 0 MAGENTA PHOSP?

(MAGENTA(W) PHOSP?)

=> s magenta and phosphate

129 MAGENTA

193575 PHOSPHATE

L3 4 MAGENTA AND PHOSPHATE

=> s 13 and bromo. and chloro

1100263 BROMO

3479852 CHLORO

L4 1 L3 AND BROMO AND CHLORO

=> d 14

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 154201-85-1 REGISTRY

CN 1H-Indol-3-ol, 5-bromo-6-chloro-, dihydrogen phosphate (ester),
compd. with 4-methylbenzenamine (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzenamine, 4-methyl-, compd. with 5-bromo-6-chloro-1H-indol-3-yl
dihydrogen phosphate (9CI)

OTHER NAMES:

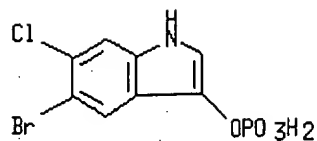
CN Magenta-phos

MF C8 H6 Br Cl N O4 P . x C7 H9 N

BR CA

LC STN Files: BIOSIS, CA, CAPLUS, MEDLINE

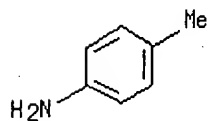
CMF C8 H6 Br Cl N O4 P



CM 2

CRN 106-49-0

CMF C7 H9 N



2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> s magenta and galacto?

129 MAGENTA

115109 GALACTO?

L5

0 MAGENTA AND GALACTO?

* * * * * Welcome to STN International * * * * *

NEWS 77 May 28 CAplus super roles and document types searchable in
REGISTRY
NEWS 76 May 28 New UPM (Update Code Maximum) field for more
efficient patent SDIs in CAplus
NEWS 75 May 26 APOLLIT: free connect time in June
NEWS 74 May 13 PROUSDDR: One FREE connect hour, per account, in both
May and June 2004
NEWS 73 May 13 PROUSDDR now available on STN
NEWS 72 May 13 Polymer links for the POLYLINK command completed in
REGISTRY
NEWS 71 May 13 EXTEND option available in structure searching
NEWS 70 May 10 FRFULL (French Patents Full Text) new on STN

NEWS EXPRESS Mar 31, 2004 CURRENT WINDOWS VERSION IS V7.0a,
CURRENT MACINTOSH VERSION IS V6.0c(ENG)
AND V6.0Jc(JP), AND CURRENT DISCOVER
FILE IS DATED 26 April 2004

NEWS HOURS Dec 03, 2003 NEW STN OPERATING HOURS

NEWS PRICE Jan 13, 2004 STN International Fees and Prices,
Effective Jan 1, 2004

* * * * * STN Karlsruhe * * * * *
FILE 'HOME' ENTERED AT 13:50:00 ON 02 JUN 2004

=> file registry

COST IN EUROS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0,31	0,31

FILE 'REGISTRY' ENTERED AT 13:50:08 ON 02 JUN 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 1 JUN 2004 HIGHEST RN 688308-86-3
DICTIONARY FILE UPDATES: 1 JUN 2004 HIGHEST RN 688308-86-3

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s indolyl and indoxyl

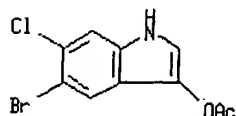
1561 INDOLYL

315 INDOXYL

L1 7 INDOLYL AND INDOXYL

=> d 11 1-7

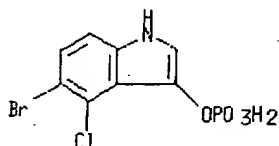
L1 ANSWER 1 OF 7 REGISTRY COPYRIGHT 2004 ACS on STN
RN 102185-48-8 REGISTRY
CN 1H-Indol-3-ol, 5-bromo-6-chloro-, acetate (ester) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Indoxyl, 5-bromo-6-chloro-, acetate (6CI)
OTHER NAMES:
CN 5-Bromo-6-chloro-3-indolyl acetate
CN 5-Bromo-6-chloroindoxyl acetate
FS 3D CONCORD
MF C10 H7 Br Cl N O2
SR CAS Client Services
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CHEMCATS, CSCHEM, USPATFULL
(*File contains numerically searchable property data)
DT.CA Caplus document type: Journal; Patent
RL.P Roles from patents: ANST (Analytical study); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: RACT (Reactant or reagent); NORL (No role in record)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L1 ANSWER 2 OF 7 REGISTRY COPYRIGHT 2004 ACS on STN
RN 38404-93-2 REGISTRY
CN 1H-Indol-3-ol, 5-bromo-4-chloro-, dihydrogen phosphate (ester) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 5-Bromo-4-chloro-3-indolyl phosphate
CN 5-Bromo-4-chloro-3-indoxyl phosphate
CN BCIP
FS 3D CONCORD
MF C8 H6 Br Cl N O4 P
CI COM
LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CANCERLIT, CAPLUS, CIN, CSCHEM, MEDLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
DT.CA Caplus document type: Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

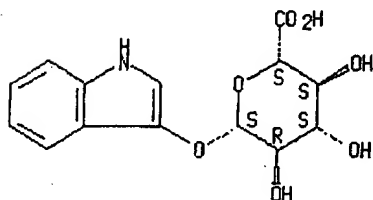
162 REFERENCES IN FILE CA (1907 TO DATE)

5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

162 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L1 ANSWER 3 OF 7 REGISTRY COPYRIGHT 2004 ACS on STN
RN 35804-66-1 REGISTRY
CN β -D-Glucopyranosiduronic acid, 1H-indol-3-yl (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Indol-3-yl β -D-glucosiduronic acid
CN Indolyl 3-glucuronide
CN Indoxyl β -D-glucuronide
FS STEREOSEARCH
DR 95983-48-5, 149231-45-8, 209347-91-1
MF C14 H15 N O7
CI COM
LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CHEMCATS, CSCHEM, MEDLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
DT.CA Caplus document type: Journal; Patent
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PROC (Process); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PROC (Process); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); USES (Uses)

Absolute stereochemistry.

****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

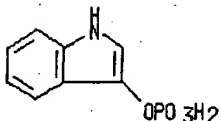
17 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

17 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L1 ANSWER 4 OF 7 REGISTRY COPYRIGHT 2004 ACS on STN
RN 3318-43-2 REGISTRY
CN 1H-Indol-3-ol, dihydrogen phosphate (ester), disodium salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Indol-3-ol, dihydrogen phosphate (ester), disodium salt (8CI)
CN Indol-3-yl sodium phosphate (7CI)
OTHER NAMES:
CN 3-Indolyl phosphate disodium salt
CN 3-Indoxyl phosphate disodium salt
MF C8 H8 N O4 P . 2 Na
LC STN Files: CA, CAOLD, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM, TOXCENTER
Other Sources: DSL**, EINECS**, TSCA**
(*Enter CHEMLIST File for up-to-date regulatory information)
DT.CA Caplus document type: Journal; Patent

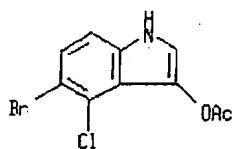
RL.P Roles from patents: ANST (Analytical study); RACT (Reactant or reagent)
RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation);
PROC (Process)
CRN. (13822-19-0)



2 Na

6 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L1 ANSWER 5 OF 7 REGISTRY COPYRIGHT 2004 ACS on STN
RN 3252-36-6 REGISTRY
CN 1H-Indol-3-ol, 5-bromo-4-chloro-, acetate (ester) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Indol-3-ol, 5-bromo-4-chloro-, acetate (7CI)
CN Indol-3-ol, 5-bromo-4-chloro-, acetate (ester) (8CI)
CN Indoxyl, 5-bromo-4-chloro-, acetate (6CI)
OTHER NAMES:
CN 5-Bromo-4-chloro-3-indolyl acetate
CN 5-Bromo-4-chloroindoxyl acetate
FS 3D CONCORD
MF C10 H7 Br Cl N O2
LC STN Files: BEILSTEIN*, BIOSIS, CA, CANCERLIT, CAOLD, CAPLUS, CHEMCATS,
CSCHEM, MEDLINE, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
DT.CA Caplus document type: Journal; Patent
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
PROC (Process); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: BIOL (Biological study); RACT (Reactant or
reagent); NORL (No role in record)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

14 REFERENCES IN FILE CA (1907 TO DATE)
14 REFERENCES IN FILE CAPLUS (1907 TO DATE)
4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L1 ANSWER 6 OF 7 REGISTRY COPYRIGHT 2004 ACS on STN
RN 608-08-2 REGISTRY
CN 1H-Indol-3-ol, acetate (ester) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Indol-3-ol, acetate (7CI)
CN Indol-3-ol, acetate (ester) (8CI)
CN Indoxyl acetate (6CI)
OTHER NAMES:
CN 3-Acetoxyindole
CN 3-Indolyl acetate
CN 3-Indoxyl acetate

CN NSC 13964
FS 3D CONCORD
MF C10 H9 N O2
CI COM

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX,
CHEMLIST, CSCHM, EMBASE, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE,
RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**, NDSL**, TSCA**

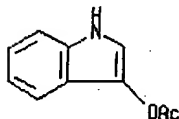
(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Conference; Journal; Patent

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES
(Uses)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological
study); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP
(Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in
record)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

174 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

175 REFERENCES IN FILE CAPLUS (1907 TO DATE)

20 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L1 ANSWER 7 OF 7 REGISTRY COPYRIGHT 2004 ACS on STN

RN 487-94-5 REGISTRY

CN 1H-Indol-3-ol, hydrogen sulfate (ester) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Indol-3-ol, hydrogen sulfate (ester) (8CI)

OTHER NAMES:

CN 3-Indoxyl sulfate

CN 3-Indoxylsulfuric acid

CN Indican

CN Indican (metabolic indolyl sulfate)

CN Indoxyl sulfate

CN Indoxylsulfuric acid

FS 3D CONCORD

DR 130385-38-5

MF C8 H7 N O4 S

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, DDFU, DRUGU, EMBASE, IPA,
MEDLINE, MRCK*, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

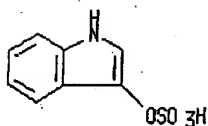
DT.CA Caplus document type: Conference; Journal; Patent

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
CMBI (Combinatorial study); PROC (Process); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP
(Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological

study)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

187 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
187 REFERENCES IN FILE CAPLUS (1907 TO DATE)
8 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> logoff y
COST IN EUROS

SINCE FILE	TOTAL
ENTRY	SESSION
20,71	21,02

FULL ESTIMATED COST

STN. INTERNATIONAL LOGOFF AT 13:50:46 ON 02 JUN 2004


[Web](#) [Images](#) [Groups](#) [News](#) [Froogle](#) [more »](#)

[Advanced Search](#)
[Preferences](#)

Web

 Results 1 - 10 of about 128 for "**aerobic anaerobic bacteria**". (0.07 seconds)

Aerobic and anaerobic infection associated with malignancy.

... Anaerobic bacteria only were isolated in 201 (30%) specimens, aerobic bacteria in 226 (34%), mixed **aerobic-anaerobic bacteria** in 231 (35%) and *Candida* spp. ...

www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&
 db=PubMed&list_uids=9540171&dopt=Abstract - [Similar pages](#)

Sponsored Links

Nelson Labs Test Services
 Isolate Identifications Laboratory
Bacteria, Mold, Yeast
 www.nelsonlabs.com

[See your message here...](#)

[Bacteriological and clinical evaluation of cefoxitin in the ...

... In these 23 cases, it was found that 8 were due to aerobic bacteria only (34.8%), 8 mixed **aerobic-anaerobic bacteria** (34.8%) and the remaining 6 anaerobic ...

www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&
 db=PubMed&list_uids=6876361&dopt=Abstract - [Similar pages](#)
 [[More results from www.ncbi.nlm.nih.gov](#)]

Fishkeepers Forum.org

... in the preceeding stages. It is beneficial to have as much facultatively **aerobic/anaerobic bacteria** as possible. That is why you ...

www.fishkeepersforum.org/hardware/Denitrator/Part6.asp - 6k - [Cached](#) - [Similar pages](#)

O Mundo da Hidroponia / The World of Hydroponics

... and partially not digested), yet treated by enzymes, is exposed to the action of oxygen, aerobic bacteria and **aerobic/anaerobic bacteria**, proceeding from ...

www.hydor.eng.br/Pag21-1.html - 17k - [Cached](#) - [Similar pages](#)

Pleural effusion: empyema: commonly caused by Strep. pneumoniae ...

... Clinical Question. Patient, pleural effusion and empyema. Intervention or Exposure, prevalence. Outcome, **aerobic/ anaerobic bacteria**.

www.eboncall.org/CATs/2443.htm - 6k - [Cached](#) - [Similar pages](#)

Proper Lagoon Management

... The intermediate zone, which is partly aerobic and partly anaerobic, is where the facultative (**aerobic-anaerobic**) **bacteria** degrade the suspended organic matter ...

aems.aste.usu.edu/www/articles2.html - 25k - [Cached](#) - [Similar pages](#)

Clinical Updates in Infectious Diseases

... fasciitis, formerly called streptococcal gangrene, may be associated not only with Group A streptococcus but also with mixed **aerobic/anaerobic bacteria** or as ...

www.nfid.org/publications/clinicalupdates/id/skininfect.html - 21k - [Cached](#) - [Similar pages](#)

Denitrator Plans

... In order for denitrification to occur, all oxygen must be consumed from the water and facultatively **aerobic/anaerobic bacteria** must form. ...

archimedes.galilei.com/raiar/denitrif.html - 34k - [Cached](#) - [Similar pages](#)

NATO Advanced Training Institute

... The studies of metabolic PCB pathways of various organisms show the remarkable differences between **aerobic, anaerobic bacteria** and plants. ...

www.hsrb.org/prague/demnerova-box.html - 5k - [Cached](#) - [Similar pages](#)

Reference - Exchange on the Sand Bar Method

... an anoxic area (very low in oxygen). They are called facultatively **aerobic anaerobic bacteria**. If the oxygen levels falls too low ...

www.netpets.org/fish/reference/reefref/exchange.html - 10k - [Cached](#) - [Similar pages](#)



Result Page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [Next](#)

 Free! Google Desktop Search: Search your own computer.

"aerobic anaerobic bacteria"

[Search within results](#) | [Language Tools](#) | [Search Tips](#) | [Dissatisfied? Help us improve](#)

[Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

©2004 Google


[Web](#) [Images](#) [Groups](#) [News](#) [Froogle](#) [more »](#)

[Advanced Search](#)
[Preferences](#)
Web

Results 11 - 20 of about 128 for "aerobic anaerobic bacteria". (0.34 seconds)

Section 16: Water Quality Testing

... Therefore, while total coliform and **aerobic/anaerobic bacteria** are themselves not harmful, their presence signals that bacterial contamination from either ...

www.lifewater.ca/Section_16.htm - 20k - [Cached](#) - [Similar pages](#)

Sponsored Links

[Nelson Labs Test Services](#)
 Isolate Identifications Laboratory
Bacteria, Mold, Yeast
www.nelsonlabs.com

Ref ID : 2332

... fungi in 31 layers taken from seven soil sections, as well as the number of nitrifying, denitrifying and cellulose-decomposing (**aerobic, anaerobic**) **bacteria**. ...

www.nies.go.jp/chiiki1/protoz/refere/id2999/2332.htm - 4k -

[Cached](#) - [Similar pages](#)

[See your message here...](#)

Process Research ORTECH Inc. (PRO Inc.)

... Hence the importance of hygienic and sanitary conditions are paramount to reduce the risk of contamination by **aerobic, anaerobic bacteria** and fungi to a minimum ...

www.processortech.com/torbed/default.asp?id=5 - 38k - [Cached](#) - [Similar pages](#)

Lung Abscess: Diagnosis and Treatment

... Thus most lung abscesses are polymicrobial infections, involving either strictly anaerobes or a combination of **aerobic-anaerobic bacteria**. ...

web.indstate.edu/thcme/micro/abscess.htm - 28k - [Cached](#) - [Similar pages](#)

[PDF] MICROORGANISMS

File Format: PDF/Adobe Acrobat

MICROORGANISMS February 2002 0 0.5 1 1.5 2 2.5 3 3.5 Heterotrophic Plate Count

(**aerobic**) **Anaerobic Bacteria** Yeasts and Molds Actinomycetes Pseudomonads

Nitrogen ...

www.imok.ufl.edu/compost/pdf/chem_bio_micro.pdf - [Similar pages](#)

Review Articles.3/95

... than the test. The control pockets showed higher ratios of **aerobic/anaerobic bacteria** than the test ones. The surgical treatment ...

www.dent.ucla.edu/pic/members/wsp/3-95/frandsen.html - 5k - [Cached](#) - [Similar pages](#)

Fishkeepers Forum.org

... of Saline Waters: In order for denitrification to occur, all oxygen must be consumed from the water and facultatively **aerobic/anaerobic bacteria** must form. ...

www.fishkeepersforum.org/hardware/Denitrator/Part1.asp - 6k - [Cached](#) - [Similar pages](#)

[[More results from www.fishkeepersforum.org](#)]

[PDF] Diabetic Foot Infections

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... Deep bacterial infection (mixed **aerobic/anaerobic bacteria**) Intravenous therapy Beta-lactam/beta-lactamase inhibitor combinations: ampicillin/sulbactam 3 g ...

www.biomedcentral.com/content/pdf/cto-id3411.pdf - [Similar pages](#)

Necrotizing Enterocolitis and Short Bowel Syndrome

... year post resection. 3. Bacterial overgrowth – antibiotics against **aerobic/anaerobic bacteria** are required [26]. Because of the ...

www.naspghan.org/sub/NECROTIZING_ENTEROCOLITIS_AND_SHORT_BOWEL_SYNDROME.htm - 39k -
[Cached](#) - [Similar pages](#)

[Cat Fancy Community - AnimalNetwork.com Forums - Hills, Nutro ...](#)
... a parasite itself isn't particularly harmful to an adult cat, but if they have it long enough it can through the balance of **aerobic/anaerobic bacteria** in their ...
www.catfancy.com/anforum/topic.asp?TOPIC_ID=9979&whichpage=2 - 99k -
[Cached](#) - [Similar pages](#)



Result Page: [Previous](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [Next](#)

[Search within results](#) | [Language Tools](#) | [Search Tips](#)

[Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

©2004 Google


[Web](#) [Images](#) [Groups](#) [News](#) [Froogle](#) [more »](#)

[Advanced Search](#)
[Preferences](#)

Web

Results 21 - 30 of about 128 for "aerobic anaerobic bacteria". (0.26 seconds)

eMedicine - Neutropenic Enterocolitis : Article by Rajeev Vasudeva ...

... Culture for enteric pathogens to rule out infectious causes of enterocolitis. Blood cultures are obtained for **aerobic/anaerobic bacteria** and fungus to rule out ...

www.emedicine.com/med/topic2658.htm - 90k - [Cached](#) - [Similar pages](#)

Sponsored Links

Nelson Labs Test Services
 Isolate Identifications Laboratory
Bacteria, Mold, Yeast
www.nelsonlabs.com

[See your message here...](#)

[PDF] Microsoft PowerPoint - 1007fungi.ppt

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... {fungi are **aerobic; anaerobic bacteria** can't decompose lignin; wood doesn't decompose in anaerobic conditions, like the bottom of a lake} Rather than ...

www.msu.edu/course/lbs/148h/fall2004/1007fungi.pdf - [Similar pages](#)

Association of habitual abortion with Group B Streptococcus ...

... Seminal fluid, vaginal, cervical and endometrial biopsy specimens were cultured for Mycoplasma, **aerobic, anaerobic bacteria** and yeast. ...

www.fertilitysolution.com/strep_case.htm - 12k - [Cached](#) - [Similar pages](#)

[PDF] Bacteroides fragilis

File Format: PDF/Adobe Acrobat

... a previous report, monotherapy with ciprofloxacin was effective in the treatment of acute pel- vic infection caused by mixed **aerobic/anaerobic bacteria** [4]. In ...

content.karger.com/ProdukteDB/produkte.asp?Aktion=ShowPDF&ProduktNr=223834&Ausgabe=230054&Art... - [Similar pages](#)

Russian Medical Server - Microbial diagnostics - Genital ...

... be complicated to apply various methodology to one sample in order to get information simultaneously about **aerobic, anaerobic bacteria**, intracellular parasites ...

www.rusmedserv.com/microbdiag/eng/infstd.html - 46k - Nov 15, 2004 - [Cached](#) - [Similar pages](#)

Small Reef Aquarium Basics Book Chapter 7 Page 3

... to use than the so-called "denitrators" that are available, and that work on the semi anaerobic principle (facultatively **aerobic-anaerobic bacteria**), with the ...

www.netpets.org/fish/reference/srab/srab7c.html - 9k - [Cached](#) - [Similar pages](#)

Indian J Exp Biol

... acknowledged. Although majority of the studies on microbiologically induced corrosion (MIC) have concentrated on **aerobic/anaerobic bacteria**. ...

www.niscair.res.in/ScienceCommunication/

ResearchJournals/rejour/ijeb/ijeb2k3/ijeb_sep03.asp - 101k - [Cached](#) - [Similar pages](#)

[PDF] REDOX investigations around a drift in the Tono Uranium Mine ...

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... 228 Th) were determined. Ratios of Fe(II)/Fe(III) and **aerobic/anaerobic bacteria** were also measured. Results Sixteen samples were ...

www.the-conference.com/2003/Gold2003/abstracts/A130.pdf - [Similar pages](#)

Medical Laboratory Sciences - MLS

... Advanced study of medically important **aerobic/anaerobic bacteria**; effects and modes

of action of antimicrobial/chemotherapeutic agents; rapid methods of ...
www.uic.edu/ucats/courses/MLS.html - 16k - Nov 15, 2004 - [Cached](#) - [Similar pages](#)

Making Live Sand

... In any event, even if your sand does not already contain the facultatively **aerobic anaerobic bacteria** right now, it will after the sand has been in your ...
www.efishtank.com/articles/Making%20Live%20Sand.htm - 58k - [Cached](#) - [Similar pages](#)



Result Page: [Previous](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [Next](#)

[Search within results](#) | [Language Tools](#) | [Search Tips](#)

[Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

©2004 Google

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☒ GRAY SCALE DOCUMENTS
- ☒ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.